

**ABSTRACT of the DISCLOSURE.**

The device includes a special tool for extracting an upper bead of a tire; the tool is of such a shape and is activated in such a way as to automate the tire dismounting operation reliably and safely. The device comprises other tools, used in the lower bead extraction operation and in the mounting of a tire,  
5 which tools are operated using compressed-air actuators which operate tool-bearing arms according to preset trajectories and runs.